

What is claimed is:

1. A method of exchanging a base of a phospholipid comprising:
combining a phospholipid with a hydroxyl-containing compound in the presence of
5 phospholipase D (PLD) enzyme to produce a phosphatidyl-enzyme product.
whereby the PLD enzyme is of the genus *Streptomyces*.
2. The method of claim 1 wherein the phospholipase-producing microorganism is
Streptomyces cinnamoneum.
- 10 3. The method of claim 2 wherein the phospholipase-producing microorganism is
Streptomyces cinnamoneum ATCC strain #_____.
4. The method of claim 1 wherein the PLD enzyme is produced by growing the
15 phospholipase-producing microorganisms in a growth media that comprises one or more
ingredients selected from the group consisting of glucose, yeast extract, and malt extract.
5. The method of claim 4 wherein the growth media further includes a peptone.
- 20 6. The method of claim 4 wherein the growth media further includes an anti-foaming
agent.
7. The method of claim 1 wherein the phospholipid is selected from the group
consisting of phosphatidylethanolamine, phosphatidylglycerol, phosphatidylinositol,
25 phosphatidylethanol, phosphatidylcholine, and phosphatidylserine.
8. The method of claim 1 wherein the phospholipid is lecithin.
9. The method of claim 1 whereby the hydroxyl-containing compound is selected from
30 one or more selected from the group consisting of a primary alcohol, a secondary alcohol,
and an aromatic alcohol.

10. The method of claim 1 wherein the combining step takes place in a mixture comprising an organic solvent and at least one alcohol.
- 5 11. The method of claim 10 whereby the mixture comprises one or more C₁-C₅ lower alcohols.